



# PHYSICIANS' DESK REFERENCE®


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experience with the penicillins shown any positive evidence of there are, however, no adequate pregnant women showing of these drugs on the focus on reproduction studies are not response, this drug should be if clearly needed. are excreted in human milk when penicillin G is adminis-

er excreted largely unchanged completely developed renal function will be slow. Use cautiously and evaluate organ sys-

toxicity but does have a significant following hypersensitivity skin rashes ranging from maculopurpuritic; urticaria; and angioedema, including chills, fever, joint. Severe and occasionally fatal ("WARNINGS") thrombocytopenia, nephropathy observed adverse reactions in high intravenous dosage. venous therapy with penicillin (10 million to 100 million (even fatal) potassium hypokalemia is present. Hypokalemia may be indicative of this.

line arrest may also occur. tum may result in congestive heart failure. on has been reported in pu-

including convulsions, may in CSF levels of beta-lactams use medication, treat symptomatic measures as required daily.

**ADVERSE REACTIONS**  
able strains of *Streptococcus*, bacteremia, pneumonia, sepsis, meningitis and other of 6 million units daily.

may be used in the treatment of hospitalization is recommended will be determined by clinical response. minimum of 5 million units

million units intramuscularly IV drip of 20-30 million

units/day for cervicofacial, thoracic and abdominal

units/day; penicillin is

infections of oropharynx, oral area—10 million

*Streptococcus mitis* for 3-4 weeks.

(yogurt), oral/day, million units/day for 2

million units/day for 4

million units/day for 2

a), for 4-6 weeks.

*E. coli*, *Enterococcus faecalis* and *Proteus mirabilis*.

lay, 400,000 units of penicillin/day.

units of penicillin/day in

"acidocutis" in patients "leukemic" or other underlying dental process, respiratory tract, men. One million units 30,000 units/kg in chil-

Approx. Desired Concentration (units/ml)	Approx. Volume (ml)
50,000	1,000,000 units
100,000	500,000 units
250,000	250,000 units
500,000	125,000 units
750,000	62,500 units
1,000,000	31,250 units

dro) intramuscularly mixed with 800,000 units procaine penicillin G (900,000 units for children) should be given one-half to one hour before the procedure. Oral penicillin V (phenoxymethyl penicillin), 500 mg for adults or 250 mg for children less than 60 lb, should be given every 6 hours for 8 doses. Doses for children should not exceed recommendations for adults for a single dose or for a 24 hour period. Reconstitution

The following table shows the amount of solvent required for solutions of various concentrations.

[See table above.] When the required volume of solvent is greater than the capacity of the vial, the penicillin can be dissolved by first injecting only a portion of the solvent into the vial, then withdrawing the resultant solution and combining it with the remainder of the solvent in a larger sterile container. Buffered Pfizerpen (penicillin G potassium) for injection is highly water soluble. It may be dissolved in small amounts of Water for Injection, or Sterile Isotonic Sodium Chloride Solution for Parenteral Use. All solutions should be stored in a refrigerator. When refrigerated, penicillin solutions may be stored for seven days without significant loss of potency. Buffered Pfizerpen for Injection may be given intramuscularly or by continuous intravenous drip for dosages of 500,000, 1,000,000, or 5,000,000 units. It is also suitable for intraperitoneal, intraarticular, and other local instillations. THE 10,000,000 UNIT DOSAGE MAY BE ADMINISTERED BY INTRAVENOUS INFUSION ONLY.

(1) Intramuscular Injection: Keep total volume of injection small. The intramuscular route is the preferred route of administration. Solutions containing up to 100,000 units of penicillin per ml of diluent may be used with a minimum of discomfort. Greater concentration of penicillin G per ml is physically possible and may be employed where therapy demands. When large dosages are required, it may be advisable to administer aqueous solutions of penicillin by means of continuous intravenous drip.

(2) Continuous Intravenous Drip: Determine the volume of fluid and rate of its administration required by the patient in a 24-hour period in the usual manner for fluid therapy, and add the appropriate daily dosage of penicillin to this fluid. For example, if an adult patient requires 2 liters of fluid in 24 hours and a daily dosage of 10 million units of penicillin, add 5 million units to 1 liter and adjust the rate of flow so that the liter will be infused in 12 hours.

(3) Intraperitoneal or Other Local Infusion: If fluid is aspirated, give infusion in a volume equal to  $\frac{1}{4}$  or  $\frac{1}{2}$  the amount of fluid aspirated, otherwise, prepare as for intramuscular injection.

(4) Intrathecal Use: The intrathecal use of penicillin in meningitis must be highly individualized. It should be employed only with full consideration of the possible irritating effects of penicillin when used by this route. The preferred route of therapy in bacterial meningitis is intravenous, supplemented by intramuscular injection. Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit.

Sterile solution may be left in refrigerator for one week without significant loss of potency.

**HOW SUPPLIED**

Buffered Pfizerpen (penicillin G potassium) for Injection is available in vials containing respectively 5,000,000 units  $\times$  10% (NDC 0049-0520-83), 5,000,000 units  $\times$  10% (NDC 0049-0520-88), 20,000,000 units  $\times$  1% (NDC 0049-0530-28), and a bulk, pharmacy package of 20,000,000 units  $\times$  10% (NDC 0049-0530-83) of dry powder for reconstitution; buffered with sodium citrate and citric acid to an optimum pH. Each milliliter contains approximately 6.8 milligrams of sodium (0.3 mEq) and 6.6 milligrams of potassium (0.88 mEq).

Store the dry powder below 86°F (30°C).

**REFERENCE**

1. American Heart Association. 1977. Prevention of bacterial endocarditis. *Circulation*, 55:138A-143A.

Solvent for Vial of 5,000,000 units	Infusion Only 20,000,000 units
1,000,000 units	—
500,000 units	—
250,000 units	18.2
125,000 units	9.1
62,500 units	4.5
31,250 units	2.2
15,625 units	1.1

## SINEQUAN®

(doxepin HCl)

Capules

Oral Concentrate

## DESCRIPTION

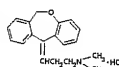
SINEQUAN® (doxepin hydrochloride) is one of a class of psychotherapeutic agents known as dibenzoxepin tricyclic compounds. The molecular formula of the compound is  $C_{19}H_{21}NO \cdot HCl$  having a molecular weight of 276. It is a white crystalline solid readily soluble in water, lower alcohols and chloroform.

Inert ingredients for the capsule formulations are: hard gelatin capsules which may contain Blue 1, Red 3, Red 40, Yellow 10, and other inert ingredients; magnesium stearate; sodium lauryl sulfate; starch.

Inert ingredients for the oral concentrate formulation are: glycerin; methylparaben; peppermint oil; propylparaben; water.

## CHEMISTRY

SINEQUAN (doxepin HCl) is a dibenzoxepin derivative and is the first of a family of tricyclic psychotherapeutic agents. Specifically, it is an isomeric mixture of 1-Propamine, 3-dibenz (doxepin) 11(6F) hydride-N,N-dimethyl-, hydrochloride.



SINEQUAN (doxepin HCl)

## ACTIONS

The mechanism of action of SINEQUAN (doxepin HCl) is not definitely known. It is not a central nervous system stimulant nor a monoamine oxidase inhibitor. The current hypothesis is that the clinical effects are due, at least in part, to its influence on the adrenergic activity at the synapse so that deactivation of norepinephrine by reuptake into the nerve terminals is prevented. Animal studies suggest that doxepin HCl does not appreciably antagonize the antihypertensive action of guanethidine. In animal studies anticholinergic, antiserotonergic and antihistaminic effects on smooth muscle are demonstrated. At higher than usual clinical doses, norepinephrine response was potentiated in animals. This effect was not demonstrated in humans.

At clinical dosages up to 180 mg per day, SINEQUAN can be given to man concomitantly with guanethidine and related compounds without blocking the antihypertensive effect. At dosages above 180 mg per day blocking of the antihypertensive effect of these compounds has been reported.

SINEQUAN is virtually devoid of euphoria as a side effect. Characteristic of this type of compound, SINEQUAN has not been demonstrated to produce the physical lethargy or psychomotor dependence associated with addictive compounds.

## INDICATIONS

SINEQUAN is recommended for the treatment of:

1. Psychoneurotic patients with depression and/or anxiety.
2. Depression and/or anxiety associated with alcoholism (not to be taken concomitantly with alcohol).
3. Depression and/or anxiety associated with organic disease (the possibility of drug interaction should be considered if the patient is receiving other drugs concomitantly).
4. Psychotic depressive disorders with associated anxiety including involuntarily depression and manic-depressive disorders.

The target symptoms of psychoneurosis that respond particularly well to SINEQUAN include anxiety, tension, depression, somatic symptoms and concerns, sleep disturbances, guilt, lack of energy, fear, apprehension and worry.

Clinical experience has shown that SINEQUAN is safe and well tolerated even in the elderly patient. Owing to lack of clinical experience in the pediatric population, SINEQUAN is not recommended for use in children under 12 years of age.





## Zeneca Pharmaceuticals—Cont.

blurred vision, disturbances of accommodation, increased ocular pressure, mydriasis, dry mouth.  
**Allergic:** Skin rash; urticaria; photosensitization; edema of face, lips, and tongue.

**Hematologic:** Bone marrow depression including granulocytosis, leukopenia, thrombocytopenia, purpura; eosinophilia.

**Gastrointestinal:** Rarely hepatic (including altered liver function); jaundice; nausea; epigastric distress; vomiting; anorexia; atrophic; peculiar taste; diarrhea; perianal swelling; black tongue.

**Endocrine:** Testicular swelling and gynecomastia in the male; breast enlargement and galactorrhea in the female; milk; breast engorgement and galactorrhea; elevation and lowering of blood sugar levels.

**Other:** Alogopic; edema; weight gain or loss; urinary frequency; increased perspiration.

**Withdrawal Symptoms:** After prolonged administration, abrupt cessation of treatment may produce nausea, headache, and malaise. Gradual discontinuation has been reported to produce, within two weeks, transient symptoms including irritability, restlessness, and dream and sleep disturbances.

These symptoms are not indicative of addiction. Rare instances have been reported of mono or hypomania or depression within 2-7 days following cessation of chronic therapy with tricyclic antidepressants.

**Causal Relationship Unknown:** Other reactions, reported under circumstances where a causal relationship could not be established, are listed to serve as alerting information to physicians:

**Body as a Whole:** Lupus-like syndrome (migratory arthritis, positive ANA), and rheumatoid factor.

**Digestive:** Hepatic failure, agnosia.

## DOSAGE AND ADMINISTRATION

## Oral Dosage

Dosage should be initiated at a low level and increased gradually, noting carefully the clinical response and any evidence of intolerance.

**Initial Dosage for Adults:** For outpatients 75 mg of amitriptyline HCl a day in divided doses is usually satisfactory. If necessary, this may be increased to a total of 150 mg per day. Inpatients are made preferably in the late afternoon and/or bedtime doses. A sedative effect may be apparent before the antidepressant effect is noted, but on adequate therapeutic effect may take as long as 30 days to develop.

An alternate method of initiating therapy for outpatients is to begin with 50 to 100 mg amitriptyline HCl at bedtime. This may be increased by 25 or 50 mg as necessary in the bedtime dose to a total of 150 mg per day.

Hospitalized patients may require 100 mg a day initially. This can be increased gradually to 200 mg a day if necessary.

A small number of hospitalized patients may need as much as 300 mg a day.

**Adolescent and Elderly Patients:** In general, lower dosages are recommended for these patients. Ten mg 3 times a day with 20 mg or bedtime may be satisfactory in adolescents and elderly patients who do not tolerate higher dosages. The minimum maintenance dosage of amitriptyline HCl is 50 to 100 mg per day. In some patients 40 mg per day is sufficient. For maintenance therapy, the total daily dosage may be given in a single dose preferably at bedtime. When satisfactory improvement has been reached, dosage should be reduced to the lowest amount that will maintain relief of symptoms. It is appropriate to continue maintenance therapy 3 months or longer to lessen the possibility of relapse.

## Intramuscular Dosage

Initial dosage: 20 to 30 mg (2 to 3 mL) four times a day.

When ELAVIL Injection is administered intramuscularly, the effects may appear more rapidly than with oral administration.

When ELAVIL Injection is used for initial therapy in patients unable or unwilling to take ELAVIL Tablets, the tablets should replace the injection as soon as possible.

## Usage in Children

In view of the lack of experience with the use of this drug in children, it is not recommended at the present time for patients under 12 years of age.

## Plasma Levels

Because of the wide variation in the absorption and distribution of tricyclic antidepressants in body fluids, it is difficult to directly correlate plasma levels and therapeutic effect. However, determination of plasma levels may be useful in identifying patients who appear to have toxic effects and in identifying patients who appear to have low levels in whom lack of alleviation or noncompliance is suspected. Adjustments in dosage should be made according to the patient's clinical response and not on the basis of plasma levels.

## OVERDOSAGE

**Manifestations:** High doses may cause temporary confusion, disturbed concentration, or transient visual hallucinations. Overdosage may cause drowsiness; hypothermia; tachycardia and other arrhythmic abnormalities, such as bundle branch block; ECG evidence of impaired conduction; congestive heart failure; dilated pupils; disorders of ocular motility; convulsions; severe hypotension; stupor; coma; and, in severe cases, pulmonary edema. Other symptoms may be agitation, hyperreflexia, rigidity, muscle rigidity, vomiting, hyperpyrexia, and other symptoms based upon ADVERSE REACTIONS.

There has been a report of fatal dysrhythmia occurring as late as 86 hours after amitriptyline overdose.

All patients suspected of having taken an overdose should be hospitalized and treated as soon as possible. Treatment is symptomatic and supportive. Empty the stomach as quickly as possible by emesis followed by gastric lavage upon arrival at the hospital. Following gastric lavage, activated charcoal may be administered. Therapy 30 g of activated charcoal may be given every four to six hours during the first 24 to 48 hours after ingestion. An ECG should be taken and close monitoring of cardiac function initiated if there is any sign of abnormality. Maintain an open airway and adequate fluid intake; regulate body temperature.

The intravenous administration of 1-8 mg of physostigmine sulfate is recommended to reverse the symptoms of tricyclic antidepressant poisoning. Because physostigmine is rapidly metabolized, the dosage of physostigmine should be repeated as required upon the appearance of threatening signs such as respiratory convulsions, and deep coma occur or persist after the initial dosage of physostigmine. Because physostigmine itself may be toxic, it is not recommended for routine use. Standard measure should be used to manage circulatory and respiratory depression. Cardiac arrhythmias may be treated with nescimimine, pyridostigmine, or propranolol. Should cardiac failure occur, the use of digitalis should be considered. Close monitoring of cardiac function for not less than five days is advised.

Anticonvulsants may be given to control convulsions. Amitriptyline increases the CNS depression but not the anticholinergic action of barbiturates; therefore, an inhalation anesthetic, diazepam, or paraldehyde is recommended for control of convulsions.

Use of 10% or less of no less than five plasma concentrations of the drug.

Since overdosage is often deliberate, patients may attempt suicide by other means during or after the recovery phase. Deaths by deliberate or accidental overdosage have occurred with this dose of drugs.

## HOW SUPPLIED

Tablets ELAVIL 10 mg, are blue, round, film coated tablets, identified with "40" debossed on one side and "ELAVIL" on the other side. They are supplied as follows:

NDC 0310-0404-10 bottles of 100

NDC 0310-0404-34 bottles of 100

Tablets ELAVIL 25 mg, are yellow, round, film coated tablets, identified with "45" debossed on one side and "ELAVIL" on the other side. They are supplied as follows:

NDC 0310-0414-10 bottles of 100

NDC 0310-0414-34 bottles of 100

Tablets ELAVIL 50 mg, are orange, round, film coated tablets, identified with "42" debossed on one side and "ELAVIL" on the other side. They are supplied as follows:

NDC 0310-0424-10 bottles of 100

NDC 0310-0424-34 bottles of 100

Tablets ELAVIL 100 mg, are mauve, round, film coated tablets, identified with "47" debossed on one side and "ELAVIL" on the other side. They are supplied as follows:

NDC 0310-0434-10 bottles of 100

NDC 0310-0434-34 bottles of 100

Tablets ELAVIL 150 mg, are orange, round, film coated tablets, identified with "42" debossed on one side and "ELAVIL" on the other side. They are supplied as follows:

NDC 0310-0444-10 bottles of 100

NDC 0310-0444-34 bottles of 100

Tablets ELAVIL 75 mg, are orange, round, film coated tablets, identified with "42" debossed on one side and "ELAVIL" on the other side. They are supplied as follows:

NDC 0310-0454-10 bottles of 100

NDC 0310-0454-34 bottles of 100

Tablets ELAVIL 150 mg, are orange, round, film coated tablets, identified with "47" debossed on one side and "ELAVIL" on the other side. They are supplied as follows:

NDC 0310-0464-10 bottles of 100

NDC 0310-0464-34 bottles of 100

Tablets ELAVIL 150 mg, are orange, round, film coated tablets, identified with "47" debossed on one side and "ELAVIL" on the other side. They are supplied as follows:

NDC 0310-0474-10 bottles of 100

NDC 0310-0474-34 bottles of 100

Injection ELAVIL 10 mg/mL, is a clear, colorless solution, as supplied as follows:

NDC 0310-0484-10 in 10 mL vials

Storage: Store Tablets ELAVIL in a well-closed container. Avoid storage at temperatures above 30°C (86°F). In addition, Tablets ELAVIL 100 mg must be protected from light and stored in well-closed, light-resistant container.

Protect ELAVIL Injection from freezing and avoid storage above 30°C (86°F).

## METABOLISM

Studies in man following oral administration of <sup>14</sup>C-labeled drug indicated that the drug is rapidly absorbed and metabolized. Radioactivity of the plasma was practically

negligible, although significant amounts of radioactivity appeared in the urine by 4 to 6 hours and one-half of the dose of the drug was excreted within 24 hours. The drug is metabolized by N-demethylation and by hydroxylation in man, rabbit, and rat. Virtually the entire dose is excreted as glucuronide or sulfate conjugates of the metabolites, with little unchanged drug appearing in the urine. Other metabolic pathways may be involved.

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